

FORM PTO-1590 (Modified)  
(REV. 07-2004)

U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE

ATTORNEY'S DOCKET NUMBER

PN0222

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

To Be Assigned

10/511966

INTERNATIONAL APPLICATION NO.  
PCT/NO03/00125INTERNATIONAL FILING DATE  
April 15, 2003PRIORITY DATE CLAIMED  
April 19, 2002

## TITLE OF INVENTION

Methods and Compound Mixtures for Determining Protein Activity Using NMR Spectroscopy

## APPLICANT(S) FOR DO/EO/US

Bill Clark, Klaes Golman, Mathilde H. Lerche, Mike Looker, Mike O'Sullivan, Albie Santos, Rolf Servin, Mikkel Thaning and Jan-Henrik Ardenkjaer-Larsen

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10.  An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11.  A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12.  A copy of the International Search Report (PCT/ISA/210).

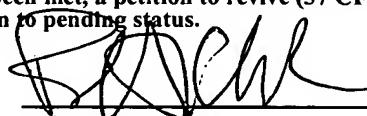
## Items 13 to 23 below concern document(s) or information included:

13.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15.  A **FIRST** preliminary amendment.
16.  A **SECOND** or **SUBSEQUENT** preliminary amendment.
17.  A substitute specification.
18.  A power of attorney and/or change of address letter.
19.  A computer-readable form of the sequence listing in accordance with PCT Rule 13<sup>ter</sup>.2 and 37 CFR 1.821 - 1.825.
20.  A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21.  A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22.  Express Mail Label No. EV345369765US
23.  Other items or information:

Copy of PCT/IB/306- Notification of the Recording of A Change

Copy of PCT Request

Return Receipt Postcard

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <b>To Be Assigned</b>		INTERNATIONAL APPLICATION NO. <b>PCT/NO03/00125</b>		ATTORNEY'S DOCKET NUMBER <b>PN0222</b>																	
24. The following fees are submitted:			<b>CALCULATIONS PTO USE ONLY</b>																		
<b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)) :</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO .....</td> <td style="width: 20%; text-align: right; padding: 5px;">\$1110.00</td> </tr> <tr> <td><input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO .....</td> <td style="text-align: right; padding: 5px;">\$950.00</td> </tr> <tr> <td><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....</td> <td style="text-align: right; padding: 5px;">\$790.00</td> </tr> <tr> <td><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) .....</td> <td style="text-align: right; padding: 5px;">\$750.00</td> </tr> <tr> <td><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) .....</td> <td style="text-align: right; padding: 5px;">\$100.00</td> </tr> </table>			<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO .....	\$1110.00	<input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO .....	\$950.00	<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....	\$790.00	<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) .....	\$750.00	<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) .....	\$100.00	<b>ENTER APPROPRIATE BASIC FEE AMOUNT = \$950.00</b>								
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Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).			<b>\$0.00</b>																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">CLAIMS</th> <th style="width: 25%;">NUMBER FILED</th> <th style="width: 25%;">NUMBER EXTRA</th> <th style="width: 25%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>23 - 20 =</td> <td>3</td> <td>x \$18.00</td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td>0</td> <td>x \$88.00</td> </tr> <tr> <td colspan="2">Multiple Dependent Claims (check if applicable).</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: right;">\$0.00</td> </tr> </tbody> </table>			CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	23 - 20 =	3	x \$18.00	Independent claims	3 - 3 =	0	x \$88.00	Multiple Dependent Claims (check if applicable).		<input type="checkbox"/>	\$0.00	<b>TOTAL OF ABOVE CALCULATIONS = \$1,004.00</b>		
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Independent claims	3 - 3 =	0	x \$88.00																		
Multiple Dependent Claims (check if applicable).		<input type="checkbox"/>	\$0.00																		
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.			<b>\$0.00</b>																		
<b>SUBTOTAL = \$1,004.00</b>																					
Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			<b>\$0.00</b>																		
<b>TOTAL NATIONAL FEE = \$1,004.00</b>																					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).			<input type="checkbox"/> \$0.00																		
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			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><input type="checkbox"/> <b>Amount to be: refunded</b></td> <td style="width: 50%; text-align: center;">\$</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> <b>charged</b></td> <td style="text-align: center;">\$</td> </tr> </table>			<input type="checkbox"/> <b>Amount to be: refunded</b>	\$	<input type="checkbox"/> <b>charged</b>	\$												
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a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>502-665</u> in the amount of <u>\$1,004.00</u> to cover the above fees. c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>502-665</u> d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.																					
<b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b>																					
SEND ALL CORRESPONDENCE TO: <b>Amersham Health, Inc.</b> <b>IP Department</b> <b>101 Carnegie Center</b> <b>Princeton, NJ 08540</b>																					
 <b>SIGNATURE</b>																					
<b>Robert F. Chisholm</b> NAME _____ <b>39,939</b> REGISTRATION NUMBER _____ <b>October 19, 2004</b> DATE _____																					

10/511960

DT05 Rec'd PCT/PTO 19 OCT 2004

## CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Docket No.

Applicant(s): Bill Clarke, et.al.

PN0222

Application No. To Be Assigned	Filing Date Herewith	Examiner To Be Assigned	Customer No. 36335	Group Art Unit To Be Assigned
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Invention: Methods and Compound Mixtures for Determining Protein Activity Using NMR Spectroscopy

I hereby certify that the following correspondence:

Request for filing a 371 U.S. application based on PCT/N003/00126 including copy of published application, unsigned declaration, copy of PCT Request, IPER, PCT/IB/306, Int'l Search report with form 1449 including non-U.S. references, preliminary amendment, authorization to charge deposit account and return receipt post card

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

October 19, 2004

(Date)

Lori Allaire

(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

EV345369765US

(Express Mail Mailing Label Number)

Note: Each paper must have its own certificate of mailing.